Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 13 (cancelled).

Claim 14 (currently amended): An optical module, comprising:

a circuit carrier;

a non-packaged semiconductor device flip-chip mounted on said circuit carrier;

a lens unit disposed for projecting electromagnetic radiation onto said semiconductor device, said lens unit including a lens holder and a lens assembly with at least one lens;

said circuit carrier having at least one relatively thin region and a relatively thick region supporting said thin region;

said lens holder being supported in said thin region of said circuit carrier and disposed directly on said thin region; and

said semiconductor device being disposed on an opposite side of said circuit carrier with respect to said lens holder and in said thin region of said circuit carrier.

Claim 15 (previously presented): The optical module according to claim 33, wherein said lens holder is supported in said thin region of said circuit carrier.

Claim 16 (previously presented): The optical module according to claim 33, wherein said semiconductor device is disposed in or adjacent said thin region of said circuit carrier.

Claim 17 (previously presented): The optical module according to claim 14, wherein said thick region is at least partially U-shaped, L-shaped, F-forked, or E-forked or frameshaped.

Claim 18 (previously presented): The optical module according to claim 14, wherein said thick region is a rigid portion of said circuit carrier.

Claim 19 (previously presented): The optical module according to claim 18, wherein said thick region is a rigid portion of a multilayer printed circuit board.

Claim 20 (previously presented): The optical module according to claim 18, wherein said thick region is a rigid portion of an FR4 circuit board.

Claim 21 (previously presented): The optical module according to claim 14, wherein said thin region is a recessed or milled-out portion of said circuit carrier.

Claim 22 (cancelled).

Claim 23 (previously presented): The optical module according to claim 14, wherein said thin region is a flexible printed circuit board and said thick region is a rigid printed circuit board.

Claim 24 (previously presented): The optical module according to claim 14, which further comprises support elements at least partially formed on said lens holder.

Claim 25 (previously presented): The optical module according to claim 14, wherein said lens holder is connected, in particular glued, laser-welded, screwed or riveted, to said circuit carrier, preferably adjacently to the support elements.

Claim 26 (previously presented): The optical module according to claim 25, wherein said lens holder is glued, laser-welded, screwed, or riveted to said circuit carrier.

Claim 27 (previously presented): The optical module according to claim 25, wherein said lens holder is connected to said circuit carrier adjacent support elements mounted to said lens holder.

Claim 28 (previously presented): The optical module according to claim 14, wherein said thick region of said circuit carrier forms a part of said lens unit.

Claim 29 (previously presented): The optical module according to claim 28, wherein said thick region of said circuit carrier forms a part of said lens holder and said lens holder is an MID (molded interconnect device) with integrated conductor tracks.

Claim 30 (previously presented): The optical module according to claim 14, wherein:

said semiconductor device is disposed on a side of said circuit carrier facing away form said lens unit; and

said thin region of said circuit carrier is formed with an opening enabling through-projection of electromagnetic radiation from said lens assembly onto said semiconductor device.

Claim 31 (previously presented): An optical system, comprising at least one optical module according to claim 14.

Claim 32 (currently amended): An optical module, comprising:

- a circuit carrier;
- a non-packaged semiconductor device flip-chip mounted on said circuit carrier;
- a lens unit disposed for projecting electromagnetic radiation onto said semiconductor device, said lens unit including a lens holder and a lens assembly with at least one lens;

said circuit carrier having at least one relatively thin region and a relatively thick region supporting said thin region, said thin region being a flexible printed circuit board and said thick region being a rigid printed circuit board, said lens holder being disposed directly on said thin region.

said semiconductor device being disposed on an opposite side of said circuit carrier with respect to said lens holder and in said thin region of said circuit carrier.

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Claim 33 (currently amended): An optical module, comprising:

- a circuit carrier;
- a non-packaged semiconductor device flip-chip mounted on said circuit carrier;
- a lens unit disposed for projecting electromagnetic radiation onto said semiconductor device, said lens unit including a lens holder and a lens assembly with at least one lens;

said circuit carrier having at least one relatively thin region and a relatively thick region supporting said thin region, said thick region defines defining a frame at least

partially surrounding said thin region, said frame clamping said thin region.

Claim 34 (new): The optical module according to claim 33, wherein said lens holder is disposed directly on said thin region.